

a set of current-collecting plates assembled respectively in contact with the first and second separators at opposite outermost sides of the cell,

wherein the electrode plates each are divided into a first plurality of spaced plates, and wherein the current-collecting plates each are divided into a second plurality of spaced plates.

(Please add new claims 18 and 19 as follows.)

--18. (New) A fuel cell comprising:

at least a cell function assembly including an electrolytic membrane;

a pair of electrode plates assembled in contact with opposite surfaces of the electrolytic membrane;

a first separator placed in contact with one of the electrode plates to form a reaction chamber to be supplied with fuel gas;

a second separator placed in contact with the other electrode plate to form a reaction chamber to be supplied with oxidizing agent gas; and

a set of current-collecting plates assembled respectively in contact with the first and second separators at opposite outermost sides of the cell,

wherein the first and second separators each are composed of a perforated flat plate made of an insulation material and a plurality of conductive projections assembled with a plurality of mounting holes formed in the flat plate,

wherein the electrode plates each are divided into a first plurality of spaced plates, and

wherein the current-collecting plates each are divided into a second plurality of spaced plates.--